

# **Revision of Unit - 5**

## **DSE Core 2:**

### **MVC Design Pattern in PHP**

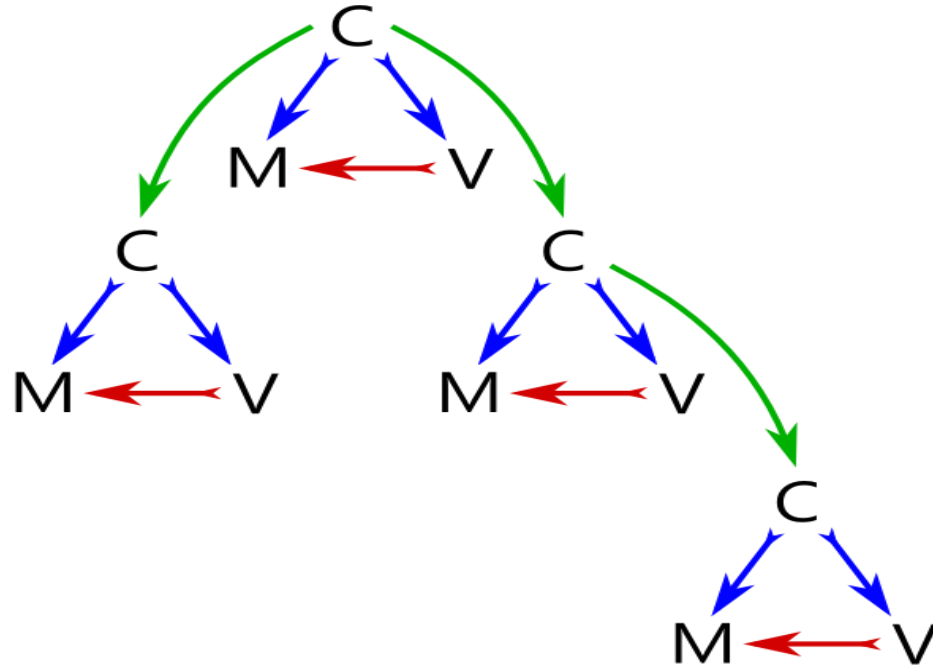
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- An application to implement authentication with database connectivity.
- [HMVC introduction](#)
- [Key advantages to implementing the HMVC pattern](#)
- [Setting up HMVC in CodeIgniter](#)

# HMVC

- Hierarchical-Model-View-Controller
- HMVC is an evolution of the MVC pattern used for most web applications today
- HMVC is closely related to the "**component based**" approach to dispatching.
- Basically, instead of having a single dispatcher, which delegates to a controller, each controller can act as a dispatcher itself. This gives you a hierarchy of controllers

# HMVC(continue..)



# HMVC(continue..)

- Each triad functions independently from one another.
- A triad can request access to another triad via their controllers
- Both of these points allow the application to be distributed over multiple locations, if needed.

# Why should I use HMVC?

- Key advantages to implementing the HMVC pattern in your development cycle:
- **Modularization:** Reduction of dependencies between the disparate parts of the application.
- **Organization:** Having a folder for each of the relevant triads makes for a lighter work load.
- **Reusability:** By nature of the design it is easy to reuse nearly every piece of code.
- **Extendibility:** Makes the application more extensible without sacrificing ease of maintenance.

# How to Download

- <https://bitbucket.org/wiredesignz/codeigniter-modular-extensions-hmvc>

# Modular Extensions installation

- Access the URL </index.php/welcome> => shows Welcome to CodeIgniter
- Drop Modular Extensions **third\_party** files into the **application/third\_party** directory
- Drop Modular Extensions core files into **application/core**, the **MY\_Controller.php** file is not required unless you wish to create your own controller extension
- Access the URL </index.php/welcome> => shows Welcome to CodeIgniter
- Create module directory structure **application/modules/welcome/controllers**
- Move controller `application/controllers/welcome.php` to **application/modules/welcome/controllers/welcome.php**



- Access the URL </index.php/welcome> => shows Welcome to CodeIgniter
- Create directory application/modules/welcome/views
- Move view application/views/welcome\_message.php to application/modules/welcome/views/welcome\_message.php
- Access the URL </index.php/welcome> => shows Welcome to CodeIgniter

- <https://stackoverflow.com/questions/41557760/codeigniter-hmvc-object-to-array-error>